

web services interface for the handle system

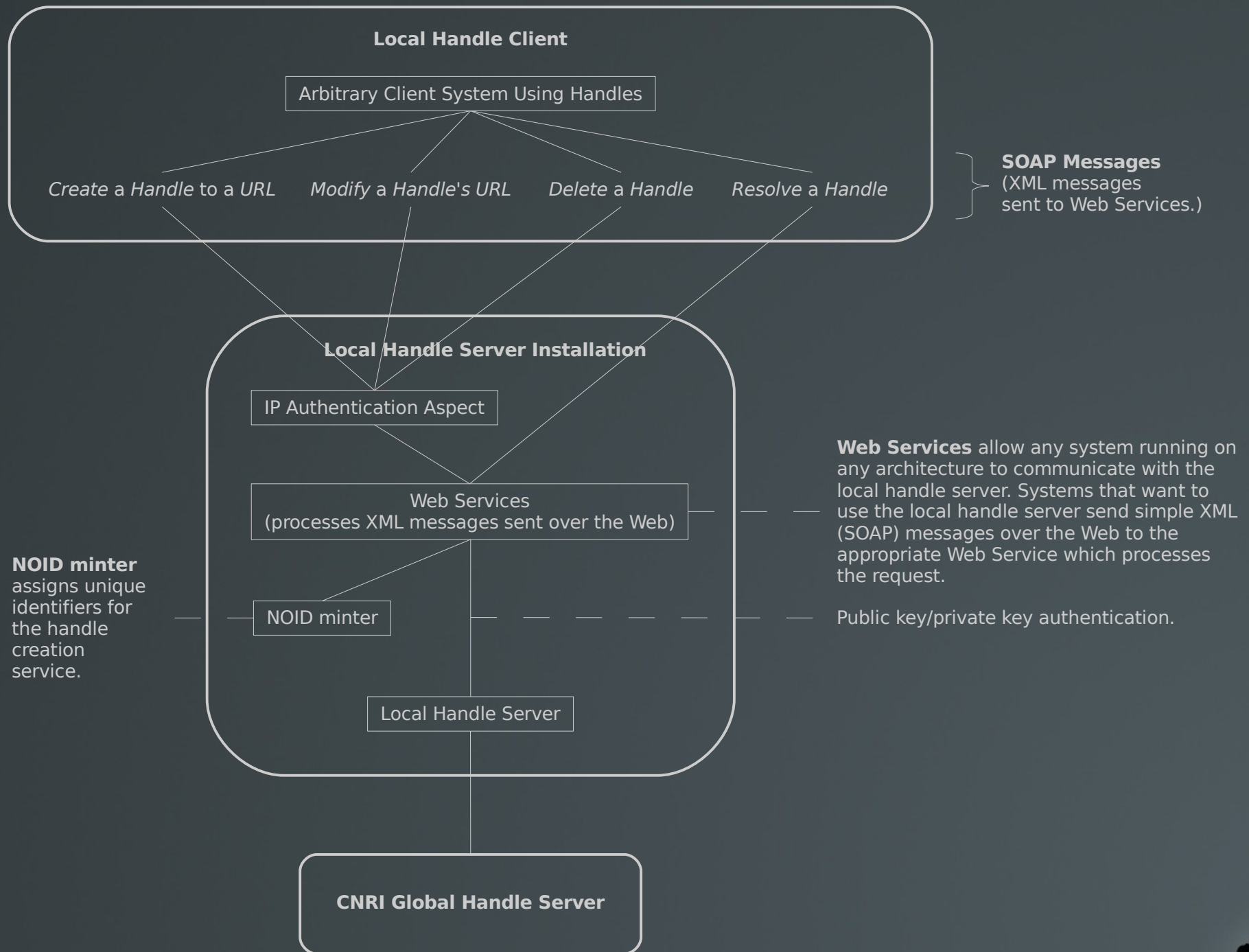
handle web services implementations

Pawletko, Joseph (2006). "A DSpace-based Preservation Repository Design." Digital Library Federation Conference, Boston, Massachusetts. (XML-RPC interface)

The Australian Persistent Identifiers Linking Infrastructure (PILIN) project (<http://www.arrow.edu.au/PILIN.php>).

Linkstorm Corporation (REST based interface).

CNRI?



```

public class HDLCreate {
public static void main(String argv[]) {
    if (argv.length != 4){
        System.err.println("usage: java net.handle.apps.simple.HDLCreate <auth handle> <auth index> <privkey> <handle>");
        System.exit(-1);
    }
    byte[] key = null;
    try {
        File f = new File(argv[2]);
        FileInputStream fs = new FileInputStream(f);
        key = new byte[(int)f.length()];
        int n=0;
        while(n<key.length) key[n++] = (byte)fs.read();
        fs.read(key);
    }
    catch (Throwable t){
        System.err.println("Cannot read private key " + argv[2] + ": " + t);
        System.exit(-1);
    }
    HandleResolver resolver = new HandleResolver();
    PrivateKey privkey = null;
    byte secKey[] = null;
    try {
        if(Util.requiresSecretKey(key)){
            secKey = Util.getPassphrase("passphrase: ");
        }
        key = Util.decrypt(key, secKey);
        privkey = Util.getPrivateKeyFromBytes(key, 0);
    }
    catch (Throwable t){
        System.err.println("Can't load private key in " + argv[2] + ": " + t);
        System.exit(-1);
    }
    try {
        PublicKeyAuthenticationInfo auth =
            new PublicKeyAuthenticationInfo(argv[0].getBytes("UTF8"),
                Integer.valueOf(argv[1]).intValue(),
                privkey);
        AdminRecord admin = new AdminRecord(argv[0].getBytes("UTF8"), 300,
            true, true, true, true, true, true,
            true, true, true, true, true);
        int timestamp = (int)(System.currentTimeMillis()/1000);
        HandleValue[] val = { new HandleValue(100, "HS_ADMIN".getBytes("UTF8"),
            Encoder.encodeAdminRecord(admin),
            HandleValue.TTL_TYPE_RELATIVE, 86400,
            timestamp, null, true, true, true, false) };
        CreateHandleRequest req = new CreateHandleRequest(argv[3].getBytes("UTF8"), val, auth);
        resolver.traceMessages = true;
        AbstractResponse response = resolver.processRequest(req);
        if (response.responseCode == AbstractMessage.RC_SUCCESS){
            System.out.println("\nGot Response: \n"+response);
        }
        else {
            System.out.println("\nGot Error: \n"+response);
        }
    } catch (Throwable t) {
        System.err.println("\nError: " + t);
    }
}
}

```

(handle.net java client library, version 6)

Java:

```
String assignedPID = HandleClient.create("http://www.library.cornell.edu");
```

Perl:

```
$assignedPID = create_handle("http://www.cornell.edu");
```

questions?